

PATENT
IBM Docket No. CA9-2000-042US1

Listing of the Claims (including amendments and status):

- 1 1. (Currently amended) A method for testing a software test
2 component, said method comprising the steps of:
- 3 ascertaining a public interface of the software test
4 component; and
- 5 creating a wrapper component for the software test component
6 by the substeps of
- 7 defining a wrapper component interface to mirror the
8 public interface of the software test component and to
9 receive calls to the software test component, defining
10 the wrapper component to delegate to the software test
11 component by including calls to the public interface of
12 the software test component within the wrapper
13 component, inserting test code within the wrapper
14 component to permit capture and playback of user
15 interaction with the public interface of the software
16 test component, and
- 17 enabling a test case to use the wrapper component
18 interface to pass the received calls to the
19 software test component and to generate test data from
20 the test code in the wrapper component.
- 1 2. (Previously Presented) The method for testing a software
2 test component according to Claim 1, wherein the software test
3 component is an object-oriented software test component and

PATENT
IBM Docket No. CA9-2000-042US1

4 wherein said step of ascertaining the public interface of the
5 software test component further comprises interrogating a test
6 component definition to determine public methods, constructor and
7 associated parameters for the software test component.

1 3. (Previously Presented) The method for testing a software
2 test component according to Claim 2, wherein the test component
3 is a Java language class and said ascertaining step further
4 comprises use of an introspection group of interfaces in a Java
5 Bean specification.

1 4. (Previously presented) The method for testing a software test
2 component according to Claim 2, wherein the substep of defining a
3 wrapper component interface further comprises defining public
4 methods, constructors and associated parameters in the wrapper
5 component to mirror the public methods, constructors and
6 parameters determined for the software test component.

1 5. (Currently amended) A computer memory storing logic [[program
2 product]] for testing software components, the logic [[computer
3 program product comprising a computer usable medium having
4 computer readable code means embodied in said medium,]]
5 comprising:

6 first logic [[code means]] for ascertaining a public
7 interface of a software test component; and

PATENT
IBM Docket No. CA9-2000-042US1

8 second logic ~~[[code means]]~~ for creating a wrapper component
9 for the software test component, said second code means
10 comprising

11
12 logic ~~[[code means]]~~ for defining a wrapper component
13 interface to mirror the public interface of the
14 software test component,

15 logic ~~[[code means]]~~ for defining the wrapper component
16 to delegate to the software test component by including
17 calls to the public interface of the software test
18 component within the wrapper component,

19 logic ~~[[code means for]]~~ inserting test code within the
20 wrapper component to permit capture and playback of
21 user interaction with the public interface of the
22 software test component, and

23 logic ~~[[code means]]~~ for enabling a test case to use the
24 wrapper component interface to access the software test
25 component and then to generate test data from the test
26 code in the wrapper component.

1 6. (Currently amended) A system in a computing environment for
2 generation of a test environment for a software test component,
3 said system comprising:

4
5 means for ascertaining a public interface of the software
6 test component; and

PATENT
IBM Docket No. CA9-2000-042US1

7 means for creating a wrapper component for the software test
8 component, said creating means including

9 means for defining a wrapper component interface to
10 mirror the public interface of the software test
11 component,

12 means for defining the wrapper component to delegate to
13 the software test component by including calls to the
14 public interface of the software test component within
15 the wrapper component, and

16 means for making the wrapper component available to
17 permit test code to be inserted within the wrapper
18 component to permit capture and playback of user
19 interaction with the public interface of the software
20 test component and to permit a test case component to
21 use the wrapper component interface to [[access]] pass
22 data to the software test component and to generate
23 test data from the test code in the wrapper component.

1 7. (Previously Presented) The system for generation of a test
2 environment according to Claim 6, wherein the software test
3 component is an object-oriented software test component and said

4 means for ascertaining the public interface of the software test
5 component further comprises

PATENT
IBM Docket No. CA9-2000-042US1

6 means for interrogating a. definition of the software test
7 component to determine public methods,

8 constructor and associated parameters for the software test
9 component.

1 8. (Previously Presented) The system for generation of a test
2 environment according to Claim 7, wherein the means for defining
3 a wrapper component interface comprises means for defining

4 public methods, constructors and associated parameters in the
5 wrapper component to minor the

6 public methods, constructors and parameters ascertained for the
7 software test component.